

LESSON V. Write one page of *mn*, setting *eight* of them on a line. Write eight lines on a page, leaving two spaces between the lines. Do you all understand what is meant by a space? Well, take care of the spaces. A little care will prevent mistakes.

LESSON VI. Write one page of *oo*, setting about eighteen of them on a line, and joining them together by a waving hair stroke. Most letters are formed of straight and curved lines combined. The *o* is formed of curved lines only, a curved shade on the left, and a curved hair line on the right. It is commenced and finished at the top. It forms a part of *a, d, g, and g.*

LESSON VII. Write one page of *re*, drawing about *twenty-five* of them on a line. This letter is of an oval form, like the *o*, and should, in coarse hand, be commenced and finished at the top.

LESSON VIII. The size of the *mm* in this lesson, is only two spaces. Draw about *twelve* of them on a line, and write *ten* lines on a page, leaving two spaces between the lines. Draw the parts of *m* equi-distant; slope them alike, and join them near the bottom.

LESSON IX. Write *ten* lines on a page of this lesson, taking care to draw word under word, in regular columns. Perpendicular ruled lines, lightly drawn with a pencil, will assist you in preserving this regularity of columns. Form the dot over *i* by a circular movement of the pen, rather than by a sudden pressure.

LESSON X. Write seven lines of *gg* on a page, leaving one space between the lines. Draw about *twenty* of them on a line. Count off five spaces for the length of *g*, and set a small dot in the margin, at the bottom of the fifth space, then draw the first letter on the line, down as far as the dot, then the whole line may be written without making mistakes in the length. If necessary, let this be done at the beginning of every line of long letters. Make the loops of *gg* two spaces and a half long.

LESSON XI. Write seven lines of *pp* on a page, drawing the stem five spaces long, and leaving one space between the lines. Write about *twenty* of them on a line, joining them together. If you can make a good *p*, you can make a good *h*. Almost all the small manuscript letters in the alphabet, are formed by combining in various ways, six or seven characters, or first principles.

LESSON XII. Write seven lines of *yy* on a page, leaving one space between the lines. Draw about *twenty* of them on a line; make the loops two spaces and a half long. The last part of *y* is the same as the last part of *g*, and the lower or main part of *j*.

LESSON XIII. Write ten lines, or a page of this lesson, taking care to draw word under word, in regular columns. The top, or point of short *n*, is carried a little higher than the other short letters. The dot or bulb of *s* should be set on the hair line, like the *copy*, with the hair line running through the centre. The bulb, or last part of *r*, should be made light and delicate. Young writers generally make the bulb of *r, v, m, and b*, too coarse and clumsy.

LESSON XIV. Write the words *ammunition* and *examination*, so as to fill a line with the two words, allowing half an inch for an outer margin, and the same for an inner margin. The coarse part of *x* is like the last part of *n*, except it is not made so sloping. Or *x* made with dots and bulbs, is like *c* joined to an inverted *c*.

LESSON XV. Write eight lines of this lesson on a page, drawing word under word, in regular columns. Make *t* three spaces, and *l, d, and h*, four spaces in length. The last part of *b* should be written with great care.

LESSON XVI & XVII. Write four pages of capitals; two pages of the first line, or sixteenth lesson, and two pages of the second line, or seventeenth lesson. Write ten lines on a page, leaving one space between the lines. The learner, in order to render the capitals easy, and execute them correctly, should, before he begins to write them, take a pen without ink in it, and run over each capital, a dozen times or more, and accustom his hand to touch lightly with the pen where the hair lines are, and give a gradual waving and curving pressure on the shades, or coarse marks. Hair lines should be made with the right corner of the pen. Coarse marks should be made by an equal pressure on both teeth of the pen, and without painting or dubbing.

LESSON XVIII. Write one page of figures. Set fourteen lines on a page, leaving one space between the lines.

LESSON XIX. Write a page of the word *compliment*, drawing eight lines on a page, writing it twice on a line, and leaving three spaces between the lines.

LESSON XX. Write a page of the word *implement*, observing the foregoing rule.

Finally, write a page of each remaining lesson, and your book will be filled. Do not hurry over these lessons, but write them with great care, so that when this book is finished, you may be prepared to write *Book Second*. Be careful to make every letter, whether long or short, of the same length, size, shape, and slope as your copy. In a word—imitate your copy.

8	Mon	<i>Acer montanum</i>	74
"	"	<i>pennsylvanicum</i>	72
"	"	<i>rubrum</i>	72
"	"	<i>mechanicum</i>	72
17	Sup.	<i>Ochillea millefolium</i>	139
12	2-5	<i>Aconitum uncinatum</i>	104
6	Mon.	<i>Acorus calamus</i>	58
7	"	<i>Fraxinus ripponcastanum</i>	66
12	"	<i>Ficotia americana</i> , alb.	98
21	Felic	<i>Adiantum pedatum</i>	179
11	2-5	<i>Aquilegia eupatoria</i>	56
10	Jan	<i>Agrastemma coronaria</i>	84
"	"	<i>gitago</i>	82
6	Mon	<i>Alinia schenoprasum</i>	60
19	Feb	<i>Alnus serrulata</i>	163
15	Feb	<i>Althea rosea</i>	125
14	Felic	<i>Allysum maritimum</i>	117
19	Jan	<i>Amaranthus albus</i>	160
"	"	^{purpureus} <i>Apocynum cannabinum</i>	"
"	"	<i>melancholicus</i>	"
"	"	<i>Ambrosia elatior</i>	159
17		<i>Anemobium latifolium</i>	142
16	Dec	<i>Amphicarpa monovichia</i>	133
11	Mon	<i>Anygdales persica</i>	87
10	"	<i>Andromeda calyculata</i>	79
"	"	^{racemosa}	82
3	Aug	<i>Andropogon fasciatus</i>	22
12	Feb	<i>Antennaria microsperma</i>	102
"	"	^{virginica}	76
"	"	^{virginiana}	"
5	Aug	<i>Artemisia graveolens</i>	48
"	"	<i>Angelica atropurpurea</i>	54
17	Sup	<i>Artemesia Cotula</i>	139
"	"	^{nobilis}	143
3	Aug	<i>Anthoxanthum odoratum</i>	18
13	Aug	<i>Antirrhinum majus</i>	110
16	Dec	<i>Apis tuberosa</i>	127
5	Aug	<i>Apocynum androsaemifolium</i>	52
"	"	^{hypericifolium}	39



12	2-5	<i>Aquilegia canadensis</i>	100	.5	Mon	<i>Borage officinalis</i>	51
"	"	<i>" vulgaris</i>	"	.21	Fil	<i>Botrycium virginicum</i>	176
14	Silq	<i>Arabis canadensis</i>	119	.14	Silq	<i>Bryonia oleracea</i>	119
5	Per	<i>Aralia hispida</i>	44	"	"	<i>rappa</i>	"
"	"	<i>" nudicaulis</i>	48	"	"		
"	"	<i>" racemosa</i>	44	.17	Sup	<i>Cacalia coccinea</i>	141
10	Mon	<i>Astrantia uva ursi</i>	78	"	Vec	<i>Calendula officinalis</i>	138
17	Aeg.	<i>Astrotrum lappa</i>	145	.18	Mon	<i>Calopogon pulchellus</i>	149
18	mon	<i>Aethusa bulbosa</i>	151	.12	Pol	<i>Caltha palustris</i>	94
12	"	<i>Argemone mexicana, altiflora</i>	97	.5	Mon	<i>Campanula amplexicaulis</i>	47
11	2-5	<i>Artemia arbutifolia</i>	87	"	"	<i>aparinoides</i>	40
"	"	<i>" melanocarpa</i>	92	"	"	<i>medium</i>	54
"	"	<i>" Poterapium</i>	90	"	"	<i>rotundifolia</i>	"
17	Sup	<i>Artemisia absinthium</i>	143	.20	Pen	<i>Cannabis sativa</i>	169
"	"	<i>" absinthium</i>	139	.5	Mon	<i>Capsicum annuum</i>	39
19	Pol	<i>Astrum trifoliglomerum</i>	154	.14	Silq	<i>Cardamine pensylvanica</i>	115
18	Dodec	<i>Asarum canadense</i>	151	.17	Aeg	<i>Carthamus tinctorius</i>	145
5	Dig	<i>Asclepias leptophylla quadrifolia</i>	47	.5	Dig	<i>Carum carvi</i>	56
"	"	<i>" incarnata</i>	54	.19	Pol	<i>Coryza alba</i>	166
"	"	<i>" obtriangularia</i>	38	"	"	<i>porcina</i>	161
"	"	<i>" phytolaccoides</i>	47	.10	Mon	<i>Cassia marilandica</i>	82
"	"	<i>" syriaca</i>	51	.19	Pol	<i>Castanea vesca, americana</i>	157
6	Mon	<i>Asparagus officinalis</i>	60	.5	Mon	<i>Ceanothus americanus</i>	54
17	Sup	<i>Aster chinensis</i>	147	"	"	<i>Celastrus scandens</i>	37
"	"	<i>" cornyzoides</i>	145	.17	Frus	<i>Centauraea cyanus</i>	140
"	"	<i>" corymbosus</i>	143	"	"	<i>" mucronatus</i>	142
"	"	<i>" purpureus</i>	136	.4	Mon	<i>Cephaelanthus occidentalis</i>	30
16	Dec	<i>Astragalus canadensis</i>	124	.10	Pen	<i>Ceratium hirsutum</i>	82
3	Dig	<i>Avena sativa</i>	16	"	"	<i>" tenellum</i>	81
10	Mon	<i>Baptisia tinctoria</i>	60	.12	Pol	<i>Cichorium majus</i>	85
14	Silq	<i>Barbarea vulgaris</i>	116	.13	Dig	<i>Cicuta glabra</i>	112
4	Per	<i>Barbarea tenella</i>	30	.5	Sup	<i>Ciclopodium album</i>	38
17	Sup	<i>Beetles perennis</i>	145	"	"	<i>" botrys</i>	53
6	Mon	<i>Berberis vulgaris, canad.</i>	60	"	"	<i>"</i>	
5	Silq	<i>Beta vulgaris</i>	39	.14	Silq	<i>Cleome grandiflora</i>	61
19	Pol.	<i>Bentula lenta</i>	161	.17	Sup	<i>Clethra alnifolia</i>	31
17	"	<i>Bidens populifolia</i>	.57	"	"	<i>Chrysanthemum carinatum</i>	147
"	"	<i>Bidens cernua</i>	139	"	"	<i>coronarium</i>	136, 147
"	"	<i>" frondosa</i>	"	"	"	<i>leucanthemum</i>	135, 139

17	Sup.	<i>Chrysanthemum leucanthemum</i>	138	10	Trig.	<i>Cucurbita behen</i>	32
"	"	<i>parthenium</i>	146	19	Mon.	<i>Cucurbita citrullus</i>	158
8 or 10	Big.	<i>Chrysophyllum oppositifolium</i>	68, 84	"	"	<i>melopepo</i>	164
5	"	<i>Cicuta bulbifera maculata</i>	56	"	"	<i>pepo</i>	"
"	"	<i>Dioscorea batatas</i>	"	5	Big.	<i>Cuscuta americana</i>	54
2	Mon.	<i>Circaea alpina</i>	4	18	Dec.	<i>Cypripedium acaule</i>	149
"	"	<i>lutea</i> , canad.	4	"	"	<i>pubescens</i>	150
5	"	<i>Cissus hederacea</i>	42				
8	"	<i>Clarkia pulchella</i>	69	17	Sup.	<i>Dahlia superflua</i>	47
"	"	<i>"</i> , <i>alba</i>	"	11	Pol.	<i>Dahlborda fragrans</i>	87
5	"	<i>Clatormia spatulata</i>	45	"	"	<i>repens</i>	88
12	Pol.	<i>Clematis virginiana</i>	94	5	Mon.	<i>Datura stramonium</i>	53
17	Aeg.	<i>Cnicus altissimus</i>	146	"	Big.	<i>Dianthus barbatus</i>	45
"	"	<i>arvensis</i>	143	"	"	<i>Digitaria fragrans</i>	102
"	"	<i>lanceolatus</i>	140	12	2-5	<i>Datura stramonium</i>	45
14	Fili.	<i>Cochlearia armoracia</i>	115	"	"	<i>Dianthus barbatus</i>	"
19	Tri.	<i>Comptonia asplenifolia</i>	157	"	"	<i>Digitaria barbata</i>	85
5	Dig.	<i>Conium maculatum</i>	49	10	Big.	<i>Digitaria cassythophyllus</i>	"
6	mon.	<i>Convallaria biflora</i>	62	"	"	<i>Digitaria chinensis</i>	"
"	"	<i>bifolia</i>	"	"	"	<i>Digitaria fasciata</i>	79
"	"	<i>racemosa</i>	"	"	"	<i>Dierama tenuiflorum</i>	44
"	"	<i>umbellata</i>	"	5	Mon.	<i>Dierama tenuiflorum</i>	114
5	"	<i>Convolvulus sepium</i>	141	13	Ang.	<i>Digitalis purpurea</i>	08
12	Pol.	<i>Coptis trifolia</i>	49	"	"	<i>Dicella polystachys</i>	130
18	mon.	<i>Coralophyza odontorhiza</i>	36	16	Dec.	<i>Dorichos labiate</i>	44
"	"	<i>" venosa</i>	5	5	Herb.	<i>Drosera rotundifolia</i>	
17	Fus.	<i>Coreopsis tinctoria</i>	153, 155				
4	Mon.	<i>Cornus circinata</i>	153	10	Mon.	<i>Epigaea repens</i>	78
"	"	<i>florida</i>	145	8	"	<i>Epilobium coloratum, tetragonum</i>	68
"	"	<i>panierata</i>	32	"	"	<i>spicatum</i>	"
"	"	<i>canadensis</i>	34	21	Ague.	<i>Equisetum arvense (fertile)</i>	181
16	Herb.	<i>Corydalis cuneolata</i>	34	"	"	<i>" hyemale</i>	"
"	"	<i>glauca</i>	30	"	"	<i>" sylvaticum</i>	"
19	Pol.	<i>Corylus americana</i>	132	"		<i>Erigeron bellidifolium</i>	141
11	2-5	<i>Crataegus coccinea</i>	128	17	Sup.	<i>" (S. Gaertneri) canadense</i>	136
"	"	<i>punctata</i>	163	"	"	<i>" heterophyllum</i>	138
"	"	<i>Crepis barbata</i>	92	"	"	<i>" strigosum</i>	145
19	mon.	<i>Cucumis sativus</i>	87	19	Set.	<i>Eriocaulon pellucidum</i>	160
			164	3	Mon.	<i>Eriophorum angustifolium</i>	16
			158	6	"	<i>Erythronium dens canis</i>	59

12	<i>Eschscholtzia californica</i>	102	18	<i>Monocots</i>	<i>Habenaria</i>	<i>dilatata</i>	151
"	" <i>coccinea</i>	95	"	"	"	<i>pinibracteata</i>	153
13	<i>Ang. Euchroma coccinea</i>	110	"	"	"	<i>herbiola</i>	"
17	<i>Aeg. Eupatorium perfoliatum</i>	137	"	"	"	<i>incisa</i>	149
19	<i>Monocots</i>	160,164	"	"	"	<i>macrophylla</i>	151
"	" <i>Euphorbia lathyris</i>	167	"	"	"	<i>orbicularata</i>	155
5	" <i>maculata</i>	51	"	"	"	<i>psycodes</i>	150,151
5	<i>Entoma viscosa</i>	"	"	"	"	"	30
19	<i>Sol. Fagus sylvatica</i>	165	4	<i>Dig.</i>	<i>Hamamelis virginica</i>	"	4
11	" <i>Fragaria virginiana</i>	90	2	<i>Monocots</i>	<i>Hedemora puligoides</i>	"	133
20	<i>Gian Fraxinus acuminata</i>	171	16	<i>Dec.</i>	<i>Hedysarum canadense</i>	"	131
16	<i>Hex. Fumaria officinalis</i>	128	"	"	"	<i>mediterraneum</i>	133
8	<i>Monocots</i>	69	"	"	"	<i>paniculatum</i>	130
"	<i>Fuschia magellanica</i>	"	"	"	"	<i>viridiflorum</i>	100
13	<i>Gym. Galeopsis Tetrahit</i>	116	12	<i>Sol.</i>	<i>Helianthemum canadense</i>	"	"
4	<i>Monocots</i>	32	"	"	"	<i>coronosum</i>	136
"	<i>Gaultheria lanceolatum</i>	30	17	<i>Frag.</i>	<i>Helianthus decapetalosus</i>	"	96
"	" <i>trifidum</i>	32	12	<i>Sol.</i>	<i>Heuchera triloba, acuta</i>	"	100
"	" <i>triflorum</i>	78	"	<i>Aeg.</i>	<i>Hieracium " " stulta</i>	"	135
10	" <i>Gaultheria procumbens</i>	42	17	<i>Aeg.</i>	<i>Hieracium " " stolonifera</i>	"	"
5	<i>Dig. Gentiana crinita</i>	"	"	"	"	<i>kalinii</i>	"
"	" <i>saponaria</i>	"	"	"	"	<i>paniculatum</i>	"
15	<i>Sec. Geranium dissectum Robertianum</i>	125	"	"	"	<i>platata</i>	"
"	" <i>maculatum</i>	123	"	"	"	<i>renosum</i>	"
13	<i>Ang. Geranium pedunculare</i>	108	4	<i>Monocots</i>	<i>Houstonia caerulea</i>	"	30
"	" <i>Teretillaria purpurea</i>	"	20	<i>Sen.</i>	<i>Humulus lupulus</i>	"	171
11	<i>Sol. Geum rivale</i>	90	5	<i>Dig.</i>	<i>Hedysarum americanum</i>	"	36
"	" <i>strictum</i>	"	12	2-5	<i>Hippocratea canadense</i>	"	94
5	<i>Monocots</i>	51	"	"	"	<i>galioides</i>	"
3	<i>Gilia tricolor</i>	148	"	"	"	<i>perforatum</i>	"
13	<i>Gym. Gladiolus ensiformis</i>	110	"	"	"	<i>pruinosum</i>	"
17	<i>Lab. Gnaphalium dioicum</i>	138	6	<i>Monocots</i>	<i>Hypoxis erecta</i>	"	60
"	" <i>margaritaceum</i>	137	13	<i>Gym.</i>	<i>Hypoxis officinalis</i>	"	112
"	" <i>plumaginaceum</i>	"	"	"	"	"	111
"	" <i>polycephalum</i>	"	14	<i>Monocots</i>	<i>Iberis amara</i>	"	40
"	" <i>uliginosum</i>	"	"	"	"	<i>umbellata</i>	"
8	<i>Monocots</i>	53	5	<i>Monocots</i>	<i>Impatiens balsamina</i>	"	51
18	<i>Somphrena globosa</i>	153	"	"	"	<i>fulva</i>	"
6	<i>Trig. Goodyera pubescens</i>	64	"	"	"	<i>pallida</i>	140
"	<i>Syronia virginica</i>	"	17	<i>Lab.</i>	<i>Trillium helenioides</i>	"	"

3	Mon	<i>Iris versicolor</i> , subcata	14	16	Dec	<i>Euphorbia alba</i>	132
4	"	<i>Tonardia palustris</i>	32	"	"	<i>crinita</i>	"
19	Pol	<i>Juglans cinerea</i>	162	"	"	<i>hirsutissima</i>	"
6	Mon	<i>Juncus effusus</i>	61	6	Mon	<i>Juncus polyanthes</i>	129
20	"	<i>Juniperus communis</i> , <i>depressa</i> , (plumosa)	167	21	<i>Lycopodium annotinum</i>	"	61
"	"	<i>" virginiana</i>	171	"	"	<i>Clavatum</i>	177
10	Mon	<i>Kalmia angustifolia</i>	70	78	"	<i>complanatum</i>	"
		<i>" latifolia</i>			"	<i>dendroides</i>	"
17	deg.	<i>Krigia virginica</i>	163	5	Mon	<i>Krigia avensis</i>	37
17	deg.	<i>Lactuca elongata</i>	130	2	"	<i>Lycopersicum europaeum</i>	6
"	"	<i>" sativa</i>	145	5	"	<i>" virginicum</i>	40
16	Dec.	<i>Lathyrus odoratus coccineus</i>	127	"	Mon	<i>Lysimachia ciliata</i>	52
9	Mon	<i>Laurus Bergamot</i>	75	"	"	<i>quadripolia</i>	"
"	"	<i>" Sassafras</i>	"	"	"	<i>Strigata</i>	40
15	Pol	<i>Lavatera trimestris</i> , <i>alba</i>	125	18	Mon	<i>Malaxis liliifolia</i>	153
"	"	<i>" rubra</i>	103	"	"	<i>(S.g. Microstylis) ophioglossoides</i>	153
17	deg.	<i>Leontodon Taraxacum</i>	141	15	Pol	<i>Malva crispa</i>	135
6	Mon	<i>Leontice thalictroides</i>	57	"	"	<i>rotundifolia</i>	133
13	Gym	<i>Leonturus canadica</i>	136	13	Gym	<i>Morulium vulgare</i>	114
14	flie	<i>Leptidium sativum</i>	117	"	Ang.	<i>Martynia proboscidea</i>	107
"	"	<i>" virginicum</i>	119	"	Melampyrum lineare	108	
16	Dec	<i>Lespedeza frutescens</i>	131	16	Dec	<i>Melilotus vulgaris</i>	132
"	"	<i>" hirsuta</i>	"	"	Gym	<i>Stachys officinalis</i>	70
"	"	<i>" sessiliflora</i>	"	"	"	<i>Veronica corralis</i>	110
17	deg.	<i>Liatris scariosa</i>	144	"	"	<i>pinnata</i>	112
6	Mon	<i>Lilium canadense</i>	64	"	"	<i>viridis</i>	106
"	"	<i>" philadelphicum</i>	"	"	Ang.	<i>Avicularia ringens</i>	104
"	"	<i>" tigrinum</i>	59	5	Mon	<i>Mirabilis jalapa</i>	43
4	"	<i>Linnea borealis</i>	32	4	Mitchella	<i>repens</i>	30
5	Pent	<i>Linum usitatissimum</i>	34	19	deg.	<i>Mitchella diphylla</i>	85
"	"	<i>" virginianum</i>	38	19	Mon	<i>Momordica cochinchinensis</i>	164
"	Mon	<i>Lobelia cardinalis</i>	42	10	"	<i>Monotropa hypopitys</i>	84
"	"	<i>" inflata</i>	40	"	"	<i>" uniflora</i>	"
"	"	<i>" nuttallii</i>	52	19	Tet	<i>Morus alba</i>	163
"	"	<i>Leonicera parviflora</i>	43	"	"	<i>" moretii</i>	"
"	"	<i>" sempervirens</i>	56	20	Tre	<i>Mugica gale</i>	169

6	mon	<i>Narcissus poeticus</i>	89	5	mon	<i>Petunia phoenicia</i>	47
"	"	<i>pseudo-narcissus</i>	64	3	Dig	<i>Phalaris americana, picta</i>	16
18	"	<i>Vegeta cornua</i>	169	"		<i>canariensis</i>	20
"	"	<i>tortilis</i>	"	16	Fee	<i>Phascolus nanus</i>	128
13	Spine	<i>Nepeta cataria</i>	106	3	Fee	<i>Phleum pratense</i>	18
15	mon	<i>Nicotiana tabacum</i>	47	5	mon	<i>Phlox drummondii</i>	41
12	2-5	<i>Nigella damascena</i>	95	"	"	<i>paniculata</i>	"
"	mon	<i>Nuphar advena</i>	"	"	"	<i>ribulata</i>	45
"	"	<i>Nymphaea odorata</i>	96	10	Dec	<i>Phytolacca decandra</i>	80
20	Pen	<i>Nyssa villosa (pistillata)</i>	1771	11	mon	<i>Philadelphus coronarius</i>	92
"	"	" (staminea)	"	19	"	<i>Pinus canadensis</i>	167
8	mon	<i>Oenothera biennis</i>	65	"	"	<i>rigida</i>	157
"	"	<i>chrysanthra</i>	"	"	"	<i>strobos</i>	"
"	"	<i>grandiflora</i>	16	Dec	<i>Pisum sativum</i>	133	
"	"	<i>biolleyana</i>	74	"	"	<i>skurilate</i>	"
"	"	<i>minima</i>	69	4	mon	<i>Ranunculus lanceolata</i>	31
21	Filic	<i>Onclea sensibilis</i>	68	"	"	<i>major</i>	30
18	mon	<i>Orchis tridentata</i>	179	19	Pol	<i>Platanus occidentalis</i>	166
13	Ang.	<i>Orobanche uniflora</i>	149	18	mon	<i>Polygonia sibiricoides</i>	149
21	Filic	<i>Osmunda cinnamomea</i>	112	16	Oct	<i>Polygonata paniculata, (alba?) (rubra?)</i>	129
"	"	" interrupta	178	"	"	"	129
"	"	<i>regalis</i>	"	"	"	<i>polygama</i>	"
19	Pol	<i>Ostrya virginica</i>	"	"	"	<i>purpurea</i>	"
10	Pen	<i>Oxalis stricta</i>	167	"	"	<i>revoluta</i>	"
"	"	<i>acetosella</i>	80	8	Tri	<i>Polygonum aviculare</i>	70
8	mon	<i>Oxyacanthus macrocarpus</i>	68	"	"	<i>convolvulus</i>	"
5	Dig	<i>Panax trifolium (pistil)</i>	36	"	"	<i>perfoliatum</i>	"
"	"	" (stam.)	36	"	"	<i>orientale</i>	"
3	"	<i>Panicum cuspidatum</i>	18	"	"	<i>persicaria</i>	"
"	"	<i>latifolium</i>	24	"	"	<i>sagittatum</i>	"
12	mon	<i>Papaver rhoeas</i>	104	21	Filic	<i>Polygonum virginianum</i>	"
"	"	<i>romniferum</i>	"	6	mon	<i>Polyodium vulgare</i>	179, 181
5	Tet	<i>Pannassia caroliniana</i>	"	"		<i>Pontederia cordata</i>	58
"	Dig	<i>Pastinaca sativa</i>	36	20	Oct.	<i>Populus deltoides (stam.)</i>	173
13	Ang	<i>Pedicularis canadensis</i>	42	"	"	<i>grandidentata (pistil)</i>	"
10	Pen	<i>Penstemon secundus</i>	190	"	"	<i>ternuloides (20)</i>	"
"	mon	<i>Petunia nittyginiflora</i>	80	12	mon	<i>Portulaca oleracea</i>	102
"	"		57	4	Tetr	<i>Botanogoton stellatum</i>	30

11	Pol	<i>Potentilla argentea</i>	86	5	Tri	<i>Rhus typhina</i>	38
"	"	" <i>canadensis</i>	87	"	"	<i>venosa</i>	"
"	"	" <i>hirsuta</i>	86	19	Mon	<i>Ricinus communis</i>	160
"	"	" <i>norvegica</i>	"	5	"	<i>Ribes floridum</i>	36
"	"	" <i>simplicifolia</i>	90	"	"	<i>rubrum</i>	52
19	Pol	<i>Poterium sanguisorba</i>	166	"	"	<i>triflorum</i>	"
17	Aeg.	<i>Preraethes alba</i>	1735	16	Dec	<i>Robinia pseudoacacia</i>	127
6	mon	<i>Prinos verticillatus</i>	80	11	Pol	<i>Rosa alba</i>	91
13	Gym	<i>Prunella vulgaris</i>	166	"	"	<i>bingamontana</i>	"
11	mon	<i>Prunus domestica</i>	57	"	"	<i>carolina</i>	90
"	"	" <i>pensylvanica</i>	90	"	"	<i>cinnamomea</i>	91
"	"	" <i>rotundifolia</i>	72	"	"	<i>damascena</i>	96
13	Gym	<i>Ricinantherium lanceolatum</i>	86	"	"	<i>gallia</i>	91
19	mon	<i>Pyrula rotundifolia</i>	114	"	"	lanceolata <i>gemella</i>	90
"	"	" <i>secunda</i>	78	"	"	<i>pavoniflora</i>	91
"	"	" <i>umbellata</i>	82	"	"	<i>spinosissima</i>	91
11	2-5	<i>Pyrus communis</i>	78	"	"	<i>Rubus canadensis</i>	88
"	"	" <i>cydonia</i>	92	"	"	<i>aborealis</i>	"
"	"	" <i>malus</i>	87	"	"	<i>occidentalis</i>	"
"	"	"	92	"	"	<i>odoratus</i>	"
19	Pol	<i>Quercus alba</i>	"	"	"	<i>strigosus</i>	"
"	"	" <i>bannisteri</i>	161	"	"	<i>trivalis</i>	"
"	"	" <i>coccinea</i>	165	"	"	<i>villosus</i>	"
12	Pol	<i>Ranunculus acris</i>	161	6	Tri	<i>Rumex acetosella</i>	61
"	"	" <i>fascicularis</i>	"	"	"	<i>crispus</i>	60
"	"	" <i>recurvatus</i>	98	"	"	obtusifolius <i>sanguineus</i>	59
"	"	" <i>repens</i>	"	"	"	<i>sanguineus</i>	60
"	2-5	<i>Roseda odorata</i>	"	10	mon	<i>Ruta graveolens</i>	84
5	mon	<i>Rhamnus catharticus</i>	1104	19	Pol	<i>Sagittaria sagittifolia</i>	189
14	Filiq	<i>Rhipsalis sations, f. fom.</i>	53	"	"	" <i>gracilis</i>	"
10.	mon	<i>Rhododendron nudidrum</i>	115	"	"	" <i>hastata</i>	"
"	"	" <i>undulatum</i>	82	5	Triq	<i>Tamnus canadensis</i>	49
"	"	" <i>canadense</i>	78	"	"	<i>prolificans</i>	"
5	Tri	<i>Rhus copallina</i>	81	"	Triq	<i>Tanacetum maculanda</i>	36
"	"	" <i>glabra</i>	43	10	"	<i>Saponaria officinalis</i>	79
"	"	" <i>Toxicodendron</i>	50	12	mon	<i>Taraxacum purpurea</i>	96
"	"	" <i>radicans</i>	"	13	Gym	<i>Taraxacum hastens</i>	114
"	"	"	"	10	Triq	<i>Taxifraga pensylvanica</i>	81

10	Dig	<i>Saxifraga virginica</i>	81	6	Mon.	<i>Streptopus roseus</i>	63
4	Mon	<i>Scabiosa atropurpurea</i>	34	5	"	<i>Sympetrum officinale</i>	54
16		<i>Chionanthus pentadentatus</i>	128	4	"	<i>Symplocarpus foetidus</i>	31
"		<i>Chionanthus pinatus</i>	130	2	"	<i>Lysimachia vulgaris</i>	8
3	mon	<i>Scirpus tenuis</i>		16			
13	Gym	<i>Scutellaria galericulata</i>	110	17	Sup.	<i>Taraxacum officinale</i>	144
"	"	<i>Scutellaria lateriflora</i>	108	"	"	<i>Taraxacum officinale</i>	138, 147
3	Dig	<i>Scutellaria cernua</i>	16	"	"	<i>Taraxacum vulgare</i>	142
10	Per	<i>Scutellaria tenuifolia</i>	81	20	Mon.	<i>Taraxacum canadense</i>	170
17	Sup	<i>Tenevio aurescens</i>	141	13	Sal.	<i>Thlaspium divaricatum</i>	98
"	"	<i>Tieracarpinus</i>	143	5	mon.	<i>Thesium umbellatum</i>	45
"	"	<i>obovatus</i>	142	13	Gym.	<i>Thymus vulgaris</i>	114
3	Dig	<i>Letaria glauca</i>	18	10	Dig.	<i>Thysanocarpus cordigera</i>	78
15	Pol.	<i>Sida acuta</i>	123	12	mon.	<i>Silene glabra</i>	100
10	Tri	<i>Silene armeria</i>	81	3	Dig.	<i>Trichodesma laxiflorum</i>	24
"	"	<i>Silene pennsylvanica</i>	79	13	Gym.	<i>Trigonostemma dichotoma</i>	106
14	Silig.	<i>Sinapis alba</i>	116	7	Mon.	<i>Trifolium americanum</i>	66
"	"	<i>Sinapis nigra</i>	115	16	Dec.	<i>Trifolium arvense</i>	127
5	Dig	<i>Sison aurescens</i>	54	"	"	<i>Trifolium pennsylvanicum</i>	130
4	Silig.	<i>Tisymnium officinale</i>	115	"	"	<i>Trifolium pratense</i>	127
3	mon	<i>Tisymnium aurescens</i>	14	"	"	<i>Trifolium procumbens</i>	"
5	Dig	<i>Tiarella latifolium</i>	45	"	"	<i>Trifolium repens</i>	"
20	Hec	<i>Trifolax peduncularis</i> (peltillata)	169	6	Tri.	<i>Trillium erectum</i>	63
5	mon	<i>Galium gopercicum</i>	53	"	"	<i>Trillium erythrorhizon</i>	58
"	"	<i>" nigrum</i>	52	3	Dig.	<i>Trifolium aestivum</i>	20
"	"	<i>pseudo capicum</i>	51	8	mon.	<i>Trifolium major</i>	74
"	"	<i>tuberosum</i>	52	17	Sup.	<i>Tussilago farfara</i>	141
17	Sup	<i>Solidago altissima</i>	140	19	Tri.	<i>Tussilago latifolia</i>	159
"	"	<i>bicolor</i>	137				
"	"	<i>odora</i>	143	5	Dig.	<i>Ulmus americana</i>	39
11	Aeg	<i>Sonchus oleraceus</i>	142	19	Tet.	<i>Urtica dioica</i>	161
11	2-5	<i>Sorbus americana</i>	90	6	mon.	<i>Urtica perfoliata</i>	54
17	Sup	<i>Solidago lateriflora</i>	143	"	"	<i>Urtica sessilifolia</i>	67
10	Pen	<i>Spergula arvensis</i>	80				
11	2-5	<i>Spiraea salicifolia</i>	86	10	mon.	<i>Vaccinium corymbosum</i>	79
"	"	<i>" tomentosa</i>	"	"	"	<i>Vaccinium grandiflorum</i>	82
5	mon	<i>Spigelia marilandica</i>	39	"	"	<i>Vaccinium pensylvanicum</i>	84
10	Trig	<i>Stellaria lanceolata</i>	79	"	"	<i>Vaccinium resinosum</i>	82
"	"	<i>media</i>	82	"	"	<i>Vaccinium stamineum</i>	81

6	Tri.	<i>Vernatum viride</i>	58	6	Mon.	<i>Allium cepa</i>
5	mon.	<i>Verbascum thapsus</i>	40	5	Dig.	<i>Apium petroselinum</i>
13	Ang.	<i>Verbena hastata</i>	112	21	Fil.	<i>Aspidium acrostichoides</i>
"	"	<i>Aboriginea</i>	114	17	Sup.	<i>Aster chinensis</i> , var.
"	"	<i>aristipolia</i>	108	"	"	<i>tinctorius</i>
2	mon.	<i>Veronica avensis</i>	4	"	"	<i>macrophyllus</i>
"	"	<i>peregrina</i>	8	"	"	<i>multiflora</i>
"	"	<i>scutellata</i>	6	"	"	<i>mutabilis</i>
"	"	<i>repensifolia</i>	4	"	"	<i>recurvata</i>
5	Tri.	<i>Viburnum acerifolium</i>	48	19	Pol.	<i>Betula pubescens</i>
"	"	<i>lantanaoides</i>	36	1	Dig.	<i>Milium virgatum</i>
"	"	<i>lentago</i>	36	21	Fil.	<i>Botrycium lunariaeoides</i>
"	"	<i>opulus, roseum</i>	43	"	"	<i>obliquum</i>
16	Dec.	<i>Vicia sativa</i>	131	1	Dig.	<i>Galliriche autumnalis</i>
5	mon.	<i>Villarsia lacunosa</i>	52	"	"	<i>verna</i>
"	"	<i>Vinca minor</i>	49	19	Tre.	<i>Carex digitalis</i>
"	"	<i>Viola Blanda</i>	46	"	"	<i>negra</i>
"	"	<i>canadensis</i>	49	"	"	<i>scabrosa</i>
"	"	<i>Circumflexa</i>	46	"	"	<i>scoparia</i>
"	"	<i>canescens</i>	45	"		<i>Celosia cristata, lutea</i>
"	"	<i>canthbergii</i>	46	"		<i>Cucumis melo</i>
"	"	<i>ovata</i>	"	10	Dig.	<i>Dianthus caryophyllus, album</i>
"	"	<i>pedata</i>	"	"	"	<i>variegatus</i>
"	"	<i>pubescens</i>	"	8	mon.	<i>Epilobium roseumifolium</i>
"	"	<i>rostrata</i>	"	21	Equis.	<i>Equisetum arvense (sterile)</i>
"	"	<i>rotundifolia</i>	"	3	mon.	<i>Eriophorum virginicum</i>
"	"	<i>sagittata</i>	"	17	Aeg.	<i>Eupatorium purpureum</i>
"	"	<i>tricolor</i>	"	"	"	<i>verticillatum</i>
"	"	<i>Vitis labrusca (pint)</i>	37	4	mon.	<i>Gaultheria asprellum</i>
"	"	<i>" (Stam.)</i>	"	"	"	<i>ucculenta</i>
"	"	<i>vinifera</i>	49	13	Angio.	<i>Gerardia flava</i>
"	"	<i>Nestostachys ciliatum</i>	"	5	mon.	<i>Gomphrena globosa, alba</i>
"	"	<i>" villosum</i>	44	"	"	<i>" striata</i>
19	Tri.	<i>Zea mays</i>	"	17	Friu.	<i>Melianthus annuus</i>
17	Sup.	<i>Zerontherium annuum</i>	158	"	"	<i>tuberosus</i>
"	"	<i>" lucidum</i>	144	6	Mon.	<i>Hemerocallis fulva</i>
"	"	<i>Zinnia elegans</i>	"	14	Silq.	<i>Hesperis matronalis</i>
"	"	<i>" rubra</i>	146	"	"	<i>tristis</i>

Hydrophyllum virginicum
Hypericum angulosum
" *punctatum*
Ilex canadensis
Ipomoea purpurea
Juncus tenuis ?
Juniperus communis, *depressa* (pistil.)
Lathyrus odoratus
Lechea major
" *minor*
Ligusticum levisticum
Listera convallarioides ?
Mollugo verticillata
Monarda diphylla, *angustifolia*
Mysica ciliifera
Calalys violacea
Panicum capillare
" *nitidum*, *gracile*
Phaseolus vulgaris
Pinus alba
" *nigra*
Poa annua
Polygonia verticillata
Populus tremuloides (stam.)
Prunus cerasus
Pteris aquilina
Pyrola maculata
" *uniflora*
Rhopalanthus sativus, *orbiculatus*
Rosa sempervirens
Sciurus saxatilis, *canadensis*
Sugina procumbens
Salvia officinalis
Sedum Telephium
Silene antirrhinum
Smilax peduncularis (stam.)
Solidago stricta
Sparganium ramosum
etc.

17 step. 1⁵
Tragopogon porrifolium
Tulipa gesneriana
Viburnum oxyococcus
" *pyrifolium*

This booklet brought to
the Gray Herbarium Sept., 1964
by Ruth Coolidge of Brookline,
Mass., a descendant of George
Pierce whose herbarium was
supposedly given to the Gray
about 1947. Pierce was
a physician and Harvard College
graduate and was born
about 1807.

R. C. Rollins









General Remarks.

This little work, on Chirography, is comprised in Four Books. Book First is intended for those who are just beginning to write. Book Second is intended for those who have made some progress in writing. The Third and Fourth Books are intended for the higher classes. The copies are designed to be cut out, and used as copy-slips. Each book is to be filled according to the directions on the cover. The course of lessons in the four books, are such as to conduct the young learner by regular and progressive steps, from the simplest elements, to the more complete part of penmanship; and the style is calculated to lead the pupil into a legible and elegant, as well as expeditious and business-like mode of writing.

This work is offered at a price so low, that every child can have it, or, at least, part of it, who is able to purchase a writing book. It may, therefore, be introduced into every school throughout the country. In large schools, it may be well for the writers to be divided into four classes. Let those who use Book First belong to the first division; and let those who use Book Second, belong to the second division, &c. If the first and second divisions were to write in the forenoon, and the third and fourth divisions in the afternoon, it would undoubtedly afford the teacher a better opportunity of giving particular instruction to each scholar. The limits of the work admit only of general directions. It is left with teachers to give any further instructions which may be necessary.

Sitting, and Laying the Paper.

Sit at a convenient distance, and incline the left side towards the desk, without leaning upon, or even touching it with the body; by which means, the right shoulder will extend further from the desk than the left, and give a natural and true slope to the writing. Let the paper lie parallel with the edge of the desk, and at a small distance to the right of the body. Rest lightly on the left arm, and with the fingers of the left hand, keep the paper firm and smooth, placing them below the line, near the pen. The body should incline a little forward, and the head answer to this inclination, without resting on either shoulder. Keep the elbow of the right arm at a small distance from the side, and let the arm rest lightly upon the desk about half way between the end of the fingers and the elbow.

Holding the Pen.

The pen should be held loosely, between the end of the thumb and middle finger, near the corner of the nail of each; the fore-finger should lie on the top, or back of the pen, and be just as low as the top of the nail of the middle finger: the distance from the middle to the point of the pen, should be at least half an inch. The joints of the thumb should extend outward, and the end be raised about as high as the first joint of the fore-finger. Incline the third and fourth fingers under, toward the hollow of the hand, and rest lightly on the ends of each. The pen should be held with the feather ranging over the right shoulder, so that the teeth of it may have equal pressure on the paper. (See the Hands on the title page.)

General Directions.

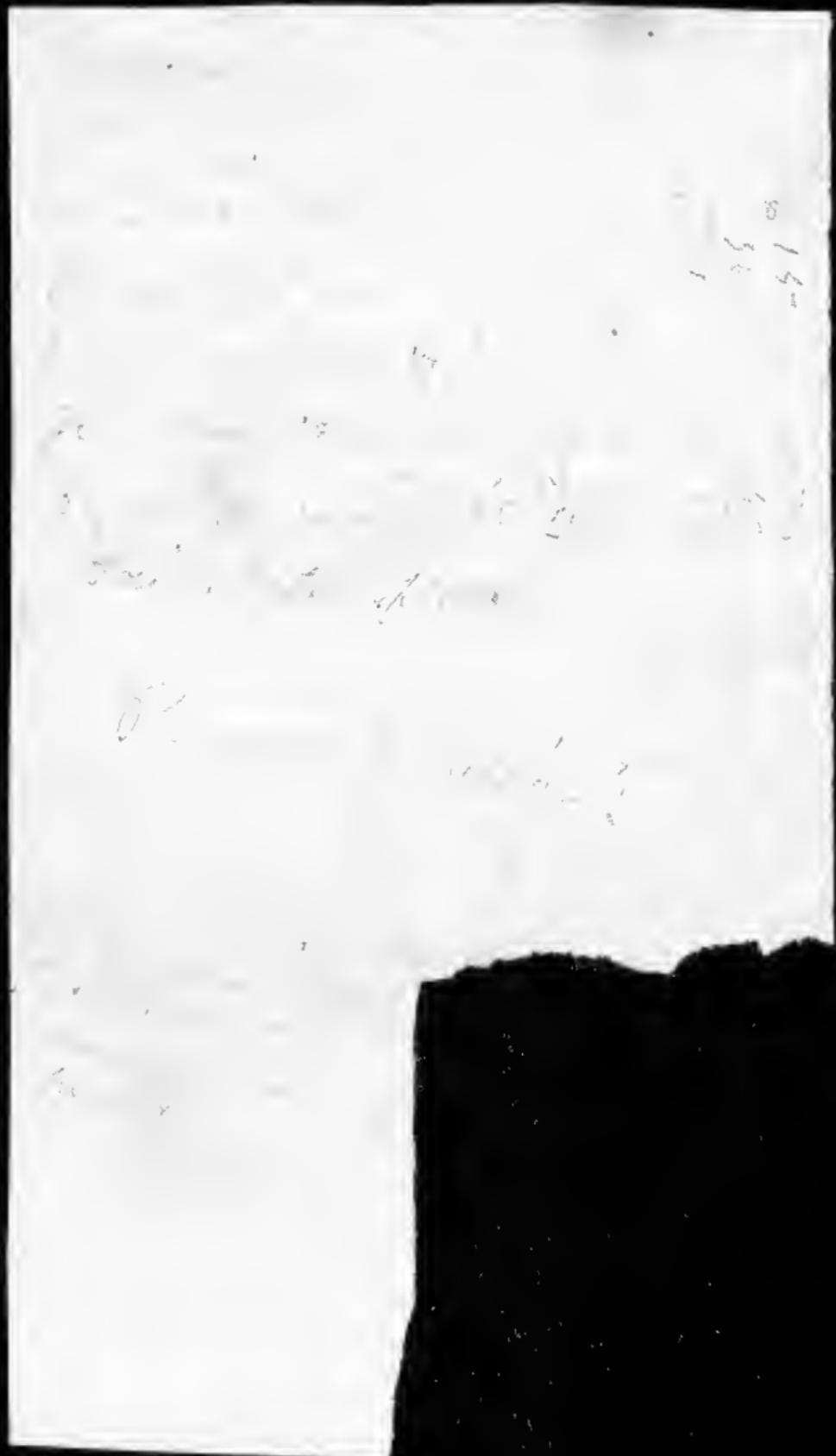
Write one page of each lesson. The number of lessons in this book is thirty. (See Plate in the middle of the book.) The copies are to be cut out and placed before the learner. In the first place, cut out a slip embracing seven lessons. When these are written, cut out three lines more, &c. On the right hand page, cut out a slip embracing the capitals and figures. When these are written, cut out the remaining six lines, and write a page of each word.

LESSON I. Write about forty straight marks on a line, and eight lines on a page, leaving two spaces between the lines. The distance from one ruled line to another we will call a space. The marks in the first lesson are drawn three spaces in length. Set them equally distant, and give them all the same slope. The second, third, fourth, fifth, sixth, and seventh lessons, are drawn three spaces in length.

LESSON II. Write one page of this character, joining them together near the bottom. Set about thirty of them on a line; write eight lines on a page, leaving two spaces between the lines.

LESSON III. Write one page of this character, joining them together near the bottom. Set about thirty of them on a line; write eight lines on a page, leaving two spaces between the lines.

LESSON IV. Write one page of this character, forming the top and bottom turns alike, and setting about twenty-four of them on a line. All top and bottom turns should be made without lifting the pen from the paper. This character forms the last part of *m*, *n*, *p*, and *h*, and the first part of *y*. What character forms the first part of *m* and *n*?



Everlasting Pea
Sweet William
Larkspur
Cockscomb
Star of Bethlehem
Double Heatherbush
Maidenhair or Catseye
Scarlet snapdragon
Pink double Poppy
Primus Heather
Love lies bleeding 2
Cockscomb
Flax
Anise
Blue bell or modesty
White Candytuft
White Marigold